## CLAIMS

(Withdrawn) A device, comprising:

a connection manager to:

generate a connection type and connection specification for new connection requests; define classification rules to allow classification of packets from applications to connections; and

a bearer manager to:

obtain bandwidth allocations for the connections from a central coordinator; map connections to a corresponding bandwidth allocation.

- (Withdrawn) The device of claim 1, the device further comprising a transport system to provide interface between applications and the connections.
- (Currently amended) A method of establishing communications <u>in a centralized</u> <u>network</u>, the method comprising:

determining that a connection needs to be established <u>in response to receiving a request</u> for a connection from an application in a device in the centralized network;

generating a connection type and a connection specification;

requesting a connection from a central coordinator;

if the connection is granted, associate a connection identifier with an originating service access point; and

associate predefined parameters with the connection identifier.

- (Canceled)
- (Original) The method of claim 3, determining that a connection needs to be established further comprising determining that a connection does not exist and automatically establishing a connection.

 (Currently amended) The method of claim [[5]] 3. generating a connection type further comprising including:

identifying a service access point of the requesting application; and generating a connection type based upon [[a]] the identified service access point of an the requesting application.

- (Currently amended) The method of claim [[5]] 6, said generating a connecting type further comprising generating a connection type based upon messages received from an the application requesting a traffic flow.
- 8. (Original) The method of claim 3, requesting a connection further comprising requesting a connection selected from the group comprising: continuous grant service, periodic grant service and aperiodic grant service.
- (Original) The method of claim 8, requesting a connection further comprising requesting a connection selection from the group comprising: unicast, multicast and broadcast.
- (Original) The method of claim 5, generating a connection specification further
  comprising generating a connection specification based upon information within protocols
  encapsulating application data received through the service access points
- (Original) The method of claim 5, generating a connection specification further comprising generating a connection specification based upon a direct specification from an application.
- (Original) The method of claim 3, generating a connection type further comprising generating a connection type as one of the group comprised of continuous grant, periodic grant, and priority aperiodic grant.
- 13. (Currently amended) A method of establishing a multicast connection in a centralized communication system, the method comprising:

creating multiple point-to-point connections between a source device and at least two destination devices:

replicating application data such that a replica exists for each destination device; and transmitting the replicas on the point-to-point connections;

wherein each connection is associated with a corresponding service access point of a transport layer of the source device;

each connection is associated with a corresponding transport layer port of the transport layer of the source device; and

each connection is assigned a connection identifier that is globally unique throughout the centralized network for use in routing data packets from the source device to selected ports in the destination devices.

- (Original) The method of claim 13, wherein at least two devices further comprises less than all possible destination devices.
- (Original) The method of claim 13, wherein at least two devices further comprises all possible destination devices for the application data.
- 16. (Currently amended) A method of establishing a broadcast connection broadcasting a message in a centralized network, the method comprising:

requesting a bandwidth allocation from a central coordinator;

receiving an indication of a time and size of a bandwidth allocation on a <u>dedicated</u> broadcast channel <u>within the centralized network;</u> and

transmitting a broadcast message according to the bandwidth allocation time on [[a]] the dedicated broadcast channel of the centralized network so that the message travels directly across the network from the transmitting device to every other device on the centralized network without traversing an intermediary broadcast facility such that the broadcast message includes any information needed for processing of the received message.

17. (Withdrawn) A method of monitoring connections, the method comprising:

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determining whether a traffic flow on a connection has attributes that conform to predefined attributes in a connection specification:

if the traffic flow does not have the attributes that conform to the predefined attributes: informing a connection manager; and

performing a remedial action on the connection.

- 18 (Withdrawn) The method of elaim 17, determining whether a traffic flow has attributes that conform further comprising monitoring traffic flow on a receiving device.
- 19. (Withdrawn) The method of claim 17, determining whether a traffic flow has attributes that conform further comprising monitoring traffic flow on a transmitting device.
- 20. (Withdrawn) The method of claim 17, performing a remedial action further comprising informing a central coordinator of a violation and the central coordinator requests a reconfiguration of a bearer carrying the connection.
- 21. (Withdrawn) The method of claim 17, performing a remedial action further comprising informing a central coordinator that prevents sharing of bandwidth between the connection and other connections or control channels.
- 22. (Withdrawn) The method of claim 17, performing a remedial action further comprising generating a new connection specification and informing a peer connection manager of the new connection specification.
- 23. (New) A method of implementing a connection between devices in a centralized network, the method comprising:

in a first network device, installing an application program;

in the first network device, selecting a service access point appropriate to a type of data associated with the installed application program;

associating the installed application with the selected service access point;

AMENDMENT PAGE 7 OF 17 Do No 8371-0162 SERIAL No. 10/663,406 requesting a connection via a network transport layer between the installed application and a peer application on a destination device in the network; and

receiving a globally unique connection identifier CID associated with the requested connection:

wherein the selected service access point has a corresponding classifier in the network transport layer, for matching a received transport layer packet to the associated connection identifier CID.

- 24. (New) A method of implementing a connection in a centralized network according to claim 23 wherein the classifier is defined by a predetermined series of rules provided by a connection manager for use in matching the received transport layer packet to the associated connection.
- 25. (New) A method of implementing a connection in a centralized network according to claim 24 wherein each classifier rule comprises a set of matching criteria or parameters to apply to the packet, a rule priority and a connection identifier CID.
- 26. (New) A method of implementing a connection in a centralized network according to claim 25 and further comprising:

receiving a packet at a port of the transport layer of the destination device;

in the transport layer of the destination device, comparing the received packet parameters to the classifier rules associated with the port to find a match:

if a match is found, associating the received packet with the corresponding connection identifier CID: and then

delivering the received packet to a service access point of the destination device associated with the corresponding connection identifier CID.

27. (New) A method of implementing a connection in a centralized network according to claim 26 and further wherein:

the CID to which the received packet belongs in contained in the packet; and the classifier used the CID for selecting a transport layer port to deliver the packet. 28. (New) A method of broadcasting a message according to claim 16 and further comprising:

receiving the broadcast message in a destination device on the centralized network; and in the destination device, optionally sending an acknowledgment message to the transmitting device.

29. (New) A method of broadcasting a message according to claim 28 and further comprising:

in the transmitting device, receiving acknowledgement messages from other devices in the centralized network;

associating the received acknowledgement messages with the broadcast message; and determining whether or not to re-try transmitting the broadcast message.

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